

SAFETY DATA SHEET

SDS No.5010-29711

Date

December 1, 2014

1/4 page

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Double-layer Cartridge column
NAME OF MANUFACTURER : GL Sciences Inc.
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan
CHARGE SECTION : International Sales Section
TELEPHONE No. : +81-3-5323-6620
FACSIMILE No. : +81-3-5323-6621
PRODUCT No. : 5010-29711
SDS No. : 5010-29711
Research use only.

2. HAZARDS IDENTIFICATION

This product is the cartridge using for such as chromatography analysis, research and development.
"Double-layer Cartridge column" are packed with carbon silicagel and quartz wool.
We show information about packing materials below.

[Carbon silicagel 3s]

[Carbon silicagel 8s]

GHS CLASSIFICATION : Classification not possible
HAZARDS SYMBOL : - - -
SIGNAL WORD : - - -
HAZARD STATEMENTS : - - -
PRECAUTIONARY STATEMENTS : - - -
OTHER INFORMATION : May harmful if inhalation or ingestion.
May induce irritation of eyes, skin and respiratory system.
May induce vomiting or headache by long-term inhalation.
Dispose of contents/container in accordance with all applicable regulations.

[Quartz wool]

GHS CLASSIFICATION : Classification not possible
HAZARDS SYMBOL : - - -
HAZARD STATEMENTS : - - -
PRECAUTIONARY STATEMENTS : - - -
OTHER INFORMATION : May induce irritation of eyes, skin and respiratory system.
May harmful if ingestion.
May cause lung injury by long-term inhalation.
Dispose of contents/cartridge in accordance with all applicable regulations.

MOST IMPORTANT HAZARDS : Eye irritation, skin irritation, digestive tract irritation, respiratory tract irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : - - -
SYNONYMS : - - -
CHEMICAL FORMULA : Mixture

CHEMICAL IDENTITY	CONTENT	CHEMICAL FORMULA	CAS No.	TSCA INVENTORY	EINECS No.	EC INDEX No.
Silica gel	94.5%	SiO ₂	7631-86-9	Listed	231-545-4	Not established
Carbon	5.5%	C	7440-44-0	Listed	231-153-3	Not established
Quartz wool	—	SiO ₂	60676-86-0	Listed	262-373-8	Not established

4. FIRST AID MEASURES

- GENERAL ADVICE : Wash off with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.
- INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen. If irritation persists, consult a physician.
- SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower, or wipe off cleansing cream with coating, tender cloth. Use soap to help assure removal. If irritation persists, consult a physician.
- EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.
- INGESTION : Rinse mouth and gargle. Never give anything by mouth to an unconscious person. Consult a physician.

5. FIRE FIGHTING MEASURES

- EXTINGUISHING MEDIA : Carbon dioxide, dry chemical powder, foam, water spray
- FIRE & EXPLOSION HAZARDS : Toxic and irritating dust, fumes or smoke may be emitted.
- SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS : Fireman should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS : Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising dust and avoid contact with skin and eyes.
- ENVIRONMENTAL PRECAUTIONS : Prevent spills from entering sewers, watercourses or low areas. Comply with local disposal regulations.
- METHODS FOR CLEANING UP : Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.

7. HANDLING AND STORAGE

- HANDLING : Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle this product with appropriate protective equipments.
- STORAGE : Store away from sunlight in a cool well-ventilated dry place. Keep container tightly closed.
- INCOMPATIBLE PRODUCTS : Oxidizers and acids

8. EXPOSURE CONTROL/PERSONAL PROTECTION

- ENGINEERING MEASURES : Use exhaust ventilation to keep airborne concentrations below exposure limits. Use adequate ventilation.
- VENTILATION : Local Exhaust ; Recommended, Mechanical(General) ; Recommended
- CONTROL PARAMETERS

CONTENTS	OSHA	NIOSH	ACGIH
Silica gel	TWA 20mppcf (80mg/m ³ /%SiO ₂)	TWA 6mg/m ³	0.025mg/m ³
Carbon	TWA 15mg/m ³ (total) TWA 5mg/m ³ (resp.)	—	0.025mg/m ³
Quartz wool	TWA 15mg/m ³ (total) TWA 5mg/m ³ (resp.)	TWA 5mg/m ³ (total)	0.025mg/m ³

PERSONAL PROTECTION

- RESPIRATORY PROTECTION : Half or full face piece respirator, self-contained breathing apparatus, supplied air respirator, etc. Use respirators approved under appropriate government standards and follow all regulations.
- HAND PROTECTION : Safety gloves
- EYE PROTECTION : Safety glasses(goggles)
- SKIN PROTECTION : Protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Black(Carbon silicagel), White(Quartz wool)
 SHAPE : Solid(Carbon silicagel), Fiber(Quartz wool)
 ODOR : Odorless
 pH : No data available
 BOILING POINT : No data available
 MELTING POINT : No data available
 FLASH POINT : No data available
 FLAMMABILITY : No data available
 AUTOIGNITION TEMPERATURE : No data available
 VAPOR PRESSURE : No data available
 SPACIFIC GRAVITY (DENSITY) : No data available
 SOLUBILITY IN
 Water : Insoluble
 Organic solvent : Insoluble
 PARTITION COEFFICIENT ; n-octanol/water : No data available
 DECOMPOSITION TEMPERATURE : No data available

10. STABILITY AND REACTIVITY

REACTIVITY : It may cause heating or ignition depending on a kind/concentration of adsorption materials.
 CHEMICAL STABILITY : Stable under recommended storage conditions.
 CONDITION TO AVOID : Sunlight, heating, moisture, CO₂, contact with incompatible materials
 INCOMPATIBLE MATERIALS : Oxidizers, acids, alkalis, ozone, hydrogen peroxide
 HAZARDOUS DECOMPOSITION PRODUCTS : CO, CO₂

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY : No data available
 SKIN CORROSION/IRRITATION (Quartz wool) : It may induce itch or irritation of eyes, skin, throat and nose if contact with fibers.
 EYE DAMAGE/EYE IRRITATION : No data available
 SENSITATION : No data available
 GERM CELL MUTAGENICITY : No data available
 CARCINOGENICITY : No data available
 REPRODUCTIVE TOXICITY : No data available
 SPECIFIC TARGET ORGAN TOXICITY : No data available
 ASPIRATION TOXICITY : No data available

12. ECOLOGICAL INFORMATION

ECOTOXICITY : No data available
 BIODEGRADABILITY : No data available
 BIOACCUMULATION POTENTIAL : No data available
 MOBILITY IN SOIL : No data available
 HAZARDOUS TO THE OZONE LAYER : Not listed in Montreal Protocol list.

13. DISPOSAL INFORMATION

Dispose in a hazardous-waste site in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environment agency for specific rules).

14. TRANSPORT INFORMATION

IATA : Not dangerous goods
 ADR/RID : Not dangerous goods
 DOT(Department of Transportation) : Not dangerous goods
 MARINE POLLUTANT : Not classified

15. REGULATORY INFORMATION

US REGULATIONS : Labeling according to US regulation; See section 2

EU REGULATIONS : Labeling according to EC Directives; See section 2

16. OTHER INFORMATION

NOTICE:

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

Attention:

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.